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MEDICAL UNIVERSITY  
OF  
SOUTH CAROLINA

*Annual Report*  
*1974-1975*



# MEDICAL UNIVERSITY OF SOUTH CAROLINA

*Annual Report*  
*1974-1975*

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GENTLEMEN:

While the Medical University was embarked on a course of catch-up construction during the year, it continued its planning of durable health resources for South Carolinians. One such resource reached an initial development stage during the year — the South Carolina Memorial Cancer Institute. The Institute has a number of laudable objectives. It will direct a full team effort at cancer research and treatment; introduce proven new techniques, developed locally or nationally, into clinical practice with a minimum of delay; and provide a strong educational and training base for future workers in the cancer field at all levels. We believe this development has wide ramifications for South Carolina.

We are also pleased to report a substantial growth in training opportunities for technical personnel who play such important supportive roles in health care. The College of Allied Health Sciences, which achieved a high point enrollment of 420 students, is now prepared to offer 20 programs this fall. A new facility, just under construction, will allow the College for the first time to centralize many of its activities.

The above activities, selected from the many in this report, serve to reflect the continuing dynamism on this and affiliated health campuses in our State. They are investments rich in health dividends.

This account would be far from complete without reporting on the tragic loss during the year of three great figures in the advancement of medicine. We were saddened by the deaths of our Vice President for Academic Affairs, Dr. James William Colbert, Jr., and two sons in an airplane crash on September 11, 1974; of Dr. Kenneth Merrill Lynch, successively Dean, President and Chancellor, on November 29, 1974; and of the distinguished anatomist, Dr. Melvin Henry Knisely, on March 30, 1975. We will be long indebted to them for their accomplishments.

In behalf of the Medical University family, I would like to express our gratitude for your generous interest and assistance.

Respectfully submitted,

WILLIAM M. MCCORD, M.D., Ph.D.  
*President*

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## COLLEGE OF MEDICINE

The extension of health training opportunities in South Carolina has become a development of national interest. In the matter of Family Practice residencies alone, there has been a buildup in available positions from only 20 in 1970-71 to a projected 171 for the coming year in Charleston, Greenville, Spartanburg, Columbia and Anderson. In the brief existence of the Consortium — Area Health Education Center (AHEC) programs at Columbia, Greenville and Spartanburg, the number of intern and resident slots filled in all specialties has risen from 92 in 1972-73 to 158 in 1974-75. Undergraduate medical students in significant numbers are now electing to take part of their training at these community hospitals, which, by the fall of 1975, will be prepared to accept up to 20 students each.

Additionally, a substantial number of key faculty appointments has been made around the state, with the directors of Medical Education in these hospitals holding appointments as Assistant Deans in the College of Medicine. There are now 40 full-time and 147 part-time faculty teaching in these communities. An excellent feature of the AHEC program is the cross pollination of teaching talent as faculty exchanges occur among participating institutions.

The research component of the College of Medicine continued to grow consistent with the concept that excellence in medical education is enhanced by a high spirit of inquiry. It must be noted, however, that while investigative efforts are increasing, budgetary cuts have reduced the total dollars received by the College. Nevertheless, the various Departments reported publication of 533 papers in critically edited publications (125 more than in 1974). The faculty continues to distinguish itself by active participation in scientific assemblies of national and international stature.

A large cancer population in South Carolina is dependent on the Medical University's Cancer Clinic for cancer care. A supporting and closely integrated research and training program is deemed desirable to upgrade the present effort to insure that high standards are set and that new advances reach the average patient. The cancer research envisioned is interdisciplinary research, goal oriented, and dedicated not to a discipline but to a problem as yet unsolved. The South Carolina Memorial Cancer Institute was dedicated to this end in 1975.

Public support of research depends in part on visible evidence that attention is paid to translating research results to public good. This will be done by the South Carolina Memorial Cancer Institute by tying *some* research directly to disease problems, and by involving industry in the research program so that new therapies, instruments, and reagents reach the public through both MUSC clinics locally, and, through industry, patients generally.



The expansion of the Department of Microbiology to include Immunology represents an active response to the rising importance of immunology to medical care. The combination of basic and clinical immunology is a unique approach designed to raise the level of teaching relevance. New supportive instruction methods are being introduced.

The Nurse Midwifery Program, which is a joint program of the College of Medicine and the College of Nursing, subsequent to a year of faculty and curriculum development accepted nine students in January, 1975. The curriculum provides a mix of classroom and clinical experiences of nine to twelve months duration; the time requirements vary in this "self-pacing" program. The second class is scheduled to begin in October, 1975. To further acceptance of these physician extenders, the program is developing "seed teams" in cooperation with the Southeastern Regional Council on Development of Nurse Midwifery. One "seed team" (two nurse midwives) is currently located in Florence County; other locations are anticipated.

The shape and configuration of the curriculum of the College of Medicine is the subject of constant and systematic study and review. In 1970 a "new" curriculum was designed to complement the perceived individual nature of the medical student. The design permitted acceleration and encouraged early subject specific teaching through the structuring of a core of required courses, some of which were interdisciplinary, and a large number of elective courses. The student was encouraged to select his own speed and academic mix. Upon evaluation it was determined that unsystematic adjustments to the core were occurring to produce undesirable duplication. Remedial steps have been taken to eliminate or refine a number of electives. The course, "Introduction to Medicine", received considerable attention because of the importance of synthesizing those basic science components perceived necessary for a meaningful exposure to clinical medicine. Also, in view of the increasing number of qualified applicants for admission holding advanced degrees, guidelines are being strengthened for participation in the accelerated Five Year Plan.

The team approach to the provision of health services has been given additional emphasis through participation in a Student American Medical Association - sponsored interdisciplinary elective course coordinated by the Department of Family Practice. The new course of study seeks to field test a SAMA-designed curriculum and formulate an attendant textbook for interdisciplinary health team training. Three schools were selected to participate in this important study.

The cost allocation study, carried out under the auspices of the Association of American Medical Colleges, is a study designed to trace expenditures for salaries and other support to the type of work or service performed and thus to estimate the value of services in teaching, re-



search, patient services and community service. The cornerstone of the study is the Effort Report or report of work performed by each faculty member. Faculty members gave their estimates of the percent of each kind of work they did during the fiscal year of study. Success in this endeavor has led to voluntary participation in a second cost study aimed at a deeper investigation of selected cost centers. The Medical University is one of three schools selected for an in depth review of the cost of medical and paramedical education.

The College's committee system was restructured subsequent to reevaluation of functions and purpose of each constituent, resulting in a reduction from 33 standing committees to 11. The Administrative Advisory Committee will act as senior committee within the system. One new committee has been added to deal with graduate medical education which is statewide in scope.

Special minority recruitment programs are being received with enthusiasm by students. At the undergraduate college level, 12 students are chosen from the four predominantly black colleges of the state to participate in an eight-week summer session. They are exposed to various disciplines such as cell biology, pathology, dentistry, anatomy and physiology. Each has an opportunity to participate in a research project.

Recruitment has also begun at the junior high and high school levels, where an effort is being made to identify student interest in health careers. These students have begun to visit the Medical University to stimulate this interest.

At the college level, graduates accepted for medical school are offered summer preparatory courses including an introductory course in biochemistry which is for credit.

### **COLLEGE OF DENTAL MEDICINE**

Two graduations were held as a result of transition to the three-year curriculum. In September, 34 students received diplomas and in June an additional 46 students, for a total of 80 dental graduates for the year. The new entering class is made up of 55 South Carolinians representing more than 20 counties. The College will have a total enrollment of 166 pre-doctoral students.

Graduate programs are growing steadily, with 19 graduate students now enrolled in the fields of oral surgery, pedodontics, prosthodontics, oral pathology, and general dentistry.

Many dental faculty are involved in courses around the campus to train technicians needed by the private practicing dentist, among them dental assistants, dental laboratory technicians, and dental hygienists. A survey of practicing dentists in South Carolina showed the need for more dental assistants and laboratory technicians.

Constant review of how best to coordinate basic science learning with clinical procedures has led to an increase in hours for gross anatomy and general pathology; the addition of a genetics section to Pediatric Dentistry; and more emphasis on occlusion in pre-clinical and clinical areas.

The Office of Education carried out appraisals of 55 courses and aided in design and development of teaching materials in eight areas of study. Additions were made to the learning center and self-instructional materials were enlarged and improved.

Students are being oriented in computer usage with a view as to possible utilization later in their practices. Patient records will be gradually placed on computer for an accurate progress sheet on work accomplished throughout treatment.

The Continuing Education Division offered thirty courses during the year which drew a total attendance of eight hundred dentists, assistants, hygienists, nurses and students.

Off campus, the College opened a new three-chair dental clinic in the Family Practice Building and also provided oral surgery services in Charleston County Hospital for five one-half days per week. A dental clinic has been established at the Richland County Memorial Hospital in Columbia in connection with the Area Health Education Center program, the clinic to start operation in September, 1975. The clinic is part of an over-all effort to broaden training experience and knowledge of programs in operation in South Carolina.

## COLLEGE OF GRADUATE STUDIES

The 1974-75 Session proved highly stimulating for both faculty and students. Not only did the Sesquicentennial Celebration bring a succession of noted scientists to the campus for lectures, conferences and seminars but it also provided an opportunity to invite prominent alumni to return for lectures, conferences and recognition. Contributing no small part to the stimulating environment was the re-examination of every facet of the graduate operation in the comprehensive self-study required by the Southern Association of Colleges and Schools. The culminating event was the three-day visit by a team of prominent educators, scientists and administrators. Never before had the Medical University been visited by such numbers of scientists and specialists in a twelve-month period.

During this session the enrollment of graduate students reached a total of 95, with 44 participating in the Ph.D. programs and the remainder in the M.S. programs. The departmental breakdown of student affiliation was as follows: Anatomy 18, Microbiology 12, Physiology 7, Biochemistry 26, Pathology 10, Biometry 16, and Pharmacology 6.

The availability of stipend support continued to be a highly important factor in attracting superior students.



In previous years, Graduate Council members represented the College and not individual departments. This arrangement has been changed to give departments direct representation. Graduate Faculty members in a department now elect one of their members to be recommended to the Dean for appointment.

Looking to the immediate future, the Department of Biometry is seeking approval of a proposed Ph.D. program and the College of Allied Health Sciences is far advanced in planning programs which will lead to the degree of Master of Health Science. These proposals will broaden opportunities for South Carolinians to obtain advanced training in professional areas additional to those now provided in the basic sciences.

### COLLEGE OF PHARMACY

The first Doctor of Pharmacy class completed degree requirements. Of the five candidates, three selected an institutional specialty and two selected family practice pharmacy. Minor curriculum changes were made in the program, required courses in "Therapeutics" and "Toxicology" being added.

The general student body participated in two interdisciplinary conferences during the year. In October, 1974, a Health Manpower Conference was held at Hickory Knob State Park in McCormick, S. C. More than 200 students in all disciplines of health care from South Carolina, North Carolina and Georgia attended. The program also included consumers. A STAT Conference (Student Team Action for Tomorrow) was held at the Medical University in January. The theme of this meeting was interdisciplinary health care delivery. A grant has been submitted to the Student American Medical Association, and approved, for interdisciplinary projects throughout the State beginning in July.

The campus student branch of the American Pharmaceutical Association was voted the outstanding chapter in the country, earning the group an additional award of \$150 from the S. C. Pharmaceutical Association.

Regionally, Medical University students won three of the top four offices of the Student American Pharmaceutical Association at its Atlanta meeting. The MUSC chapter was asked to host the 1975 convention.

The College, working with the University of South Carolina School of Pharmacy and the S. C. Pharmaceutical Association, helped to coordinate several state-wide programs, particularly the S. C. State Seminar. In addition, a ten-hour program on "The Practical Aspects of Bioavailability" was given to pharmacists from throughout the state. In January, six one and one-half hour lectures on hypertension were presented to pharmacists within a seventy mile radius of the city. In March the same format was utilized on the topic of diabetes.



The faculty has been extremely active in presenting drug abuse programs throughout the community and many parts of the state. Many presentations have also been made to health professional groups on all aspects of drug therapy and drug abuse (podiatrists, veterinarians, nurses, dentists, and physicians).

The third and final phase of the hospital pharmacy renovation was completed in October, 1974, providing office space for the operational staff, and for the seven clinical faculty members. A new Poison and Drug Information area has been developed as well as a new out-patient pharmacy. A conference room, used for clinical class conferences, Pharm. D. classes, and in-service training programs has also been completed.

The major portion of the Family Practice Center has also been remodeled, allowing for the redesign of the family practice pharmacy for teaching and research as well as service purposes. In anticipation of main facility renovation and expansion, reorientation of the pharmaceutical technology course sequencing has taken place to permit the introduction of a pharmaceutical manufacturing laboratory.

Dr. J. D. Benmaman was voted the Gold Mortar and Pestle citation by the student body for exemplary performance as teacher.

### **COLLEGE OF NURSING**

With the introduction of autotutorial learning materials through the satellite Nursing Learning Resource Center, an opportunity to measure benefits from these aids was presented. Subjects for the study were students in The Fundamentals of Nursing I - II Course. The finding was that grades generally improved. Also, students scored above the national mean with 89 (Section I), 81 (Section II) percentile mean on National League for Nursing Achievement tests in the Fundamentals area.

The Learning Resource Center's physical facilities contain 12 carrels with assorted audio-visual equipment and a four-bed simulated patient unit for the practice of nursing skills. It was staffed by a nursing instructor during the daytime hours, and senior nursing students during the evening hours and on weekends. The Center was open 55 hours a week during the fall semester, and 60 hours a week during the spring semester.

Presently, the Center has available approximately 95 separate titles of self-instructional learning programs for student and instructor use. Clinical nursing courses using the Center as one type of teaching strategy include the following: Introduction to Professional Nursing, Fundamentals of Nursing, Pediatric Nursing, Obstetric Nursing and Nurse-Midwifery.

Plans are being made for workshops on faculty development and use of the self-instructional learning programs, and for expanded use of the Learning Resource Center by faculty and students.

It is recommended that when the Learning Resource Center Committee is established next fall, that it consist of one representative from each major clinical nursing course, as well as the Learning Resource Center Coordinator.

Another survey of some interest dealt with recruitment. A questionnaire on how students first became aware or interested in the College of Nursing revealed the following results: Friends or Relatives — 47; Guidance Counselors — 31; Career Day Programs — 21; Educational Opportunity Programs — 17; and Health Science Fair — 8. Receiving between two and five votes were Explorer Post, Candy Striping, Health Careers Club and Catalog.

The Student Nurses Association experienced heavy growth in membership and in programming. Membership increased from 32 the previous year to 136 in 1974-75. Among other service projects, the group adopted a "grandmother" at a local nursing home whom they visited weekly and provided with small gifts and much happiness. They also sponsored a blood drive for the American Red Cross at a time when blood supplies were very low. An engraved plaque of the Florence Nightingale Pledge was given by SNA to the College of Nursing as a remembrance of their very active and successful year.

On January 6, 1975, the first nine nurse-midwifery students were admitted to the College Program, this event marking the culmination of plans which had started in August, 1973.

The Family Planning Nurse Practitioner Program was established on August 2, 1974 as a joint effort by the Ob/Gyn Department and the Nurse-Midwifery Program. It is open to registered nurses and is approximately 10-12 weeks in length. The curriculum is self-paced and student centered. The program is divided into 3 modules — physical assessment, pelvic/gynecology and family planning. If the student so desires, she may apply for entrance into the full course of study leading to certification in nurse-midwifery, as these modules are part of the nurse-midwifery course of study.

Four students are admitted to each class and as of May 30, 1975, twelve students had completed the program. The program is funded by a Health, Education and Welfare grant and financially administered by the South Carolina Department of Health and Environmental Control.

Also in August, the nurse-midwifery service assumed the responsibility in consultation with the rotating chief resident of the OB service for providing health care services to girls of the Florence Crittenton Home through the maternity cycle.



To promote continuity of care, two nurse-midwives were assigned the primary responsibility of providing antenatal care at the home. This included the aspect of preparation for childbirth classes. The intrapartal and postpartal phases of the maternity cycle were the responsibility of the entire nurse-midwifery service. The patient then returned to the home for a 2-week recuperative period. A 6-week postpartum appointment was made available to those wishing to return for this aspect of their care.

Satellite clinics at St. George in Dorchester County and Moncks Corner and St. Stephens in Berkeley County are now being staffed by the Nurse-Midwifery Staff. These clinics are a major source of caseload patients. As members of the health team which includes public health nurses and other professional and auxiliary health personnel and in consultation with the obstetrical resident and medical advisor, the nurse-midwives give care to patients through all phases of the maternity cycle as long as progress of pregnancy remains uncomplicated.

The following statistics reflect a portion of the quantitative aspect of the Nurse-Midwifery Program.

#### June 1974 - May 1975

##### *ANTEPARTUM SERVICE*

Antepartum Sessions (general AP & Adolescent) .....	152
Revisits .....	1,354
New .....	34
Satellite Clinics .....	95
Revisits .....	1,537
New .....	229
Private Sessions (Including Florence Crittenton Home) .....	88
Revisits .....	670
New .....	15

##### *POSTPARTUM SERVICE*

Family Planning .....	235
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##### *DELIVERIES*

Certified Nurse-Midwives .....	200
Nurse-Midwifery Students .....	64
Certified Nurse-Midwives/Medical Students .....	36
Certified Nurse-Midwives/Physicians .....	32
Physicians .....	111
Other .....	5
<b>TOTAL DELIVERIES .....</b>	<b>448</b>



A natural concern of any institution is how their students measure up in the community. The College was pleased to receive the following comment from a physician faculty member as to student performance in Nursing in the Community II; Public Health Nursing:

"My reason for writing you, is to convey to you my astonishment at the standards achieved by your nursing students. Two were good, and two were truly superlative. The 'logs' showed an enviable maturity and humanism, amazing standards of diligence and concern, and insightful assessment of the families' problems. They are inspiring young people, and a credit to the College of Nursing."

### COLLEGE OF ALLIED HEALTH SCIENCES

Student recruitment showed continuing improvement, resulting in the largest total number of applicants for all programs in the history of the College. The high point enrollment reached 420 students, with 185 in the Upper Division and 235 in the Lower Division. Quality of admitted applicants in the Upper Division also rose.

Several new programs were added to the College during the year. Baccalaureate option programs in Radiologic Technology and Respiratory Therapy received approval from the various administrative bodies and began initial activation. Occupational Therapy was authorized to activate in 1975-76 with student acceptance scheduled for 1976-77. A Master of Health Science proposal was placed before University administration and received approval. It has now passed the Charleston Consortium and is in the hands of the Commission on Higher Education.

Three new Lower Division programs were activated, two of them, Dental Laboratory Technology and Extracorporeal Circulation Technology, accepting students as of the winter quarter. Ophthalmic Technology scheduled the fall acceptance of students.

A baccalaureate program in Dental Hygiene enrolled students for the first time during the period. It also received initial Council on Dental Education approval. Clinical level students in the two year plus two year program have been accepted for the coming fall quarter.

Physical Therapy graduated its first class as of June. This program received accreditation from the appropriate American Medical Association and American Physical Therapy Association on-site evaluation team. Total federal grants and contracts reached approximately one-half million dollars, the highest in College history.

A small increase in faculty was registered for the year — mostly in new programs. There are now 63 full-time faculty, 57 clinical faculty and 51 joint faculty.

Work began on the new College of Allied Health Sciences building, occupancy being projected as of late summer, 1976. This facility will house most of the Upper Division programs.

## STUDENT LIFE ACTIVITIES

Established on February 1, 1974, the Department of Student Life Activities has become an integral part of the campus with its strong involvement in the wide spread of student services associated with a professional institution.

A step of major significance was the location within the department of the Student Financial Aid Office, as a centralized office and function, in August, 1974. With the exception of a few miscellaneous private scholarships, the office handles the scholarship and loan programs for students in each of the six colleges. It also certifies students' eligibility for loans from outside sources such as the A.M.A. and the A.F.D.E. (American Fund for Dental Education) loan programs. In addition to the federal government student aid programs, the State Guaranteed Loan program, and various privately funded programs, this year a federally subsidized (80 percent) College Work Study program was added. The University has employed approximately 45 students in this program, and it is projected that approximately 80 students will be employed during the 1975-76 academic year. Cutbacks in federal funds for low cost loans and grants to students suggest as great an expansion of this program as possible.

Off-campus housing is an area of special concern since the one dormitory can house approximately 240 students, while the remaining 1,400 plus must find housing elsewhere. The office now aggressively searches for listings of available vacancies in price ranges which students can afford. This service is much used, especially by new students.

Counseling services are available to students from various sources, including this Department. An additional counselor was projected for 1975-76 but action on the appointment has had to be deferred for budgetary reasons.

All-university activities are the responsibility of Inter School Council (ISC), the university student government organization. Members of ISC are elected by their respective colleges according to a representation formula allowing one representative for each 100 students or a minimum of two representatives per college. Officers are presently elected from among the representatives. However, a revised constitutional proposal would elect the officers at large.

A student activities newsletter is now published every two weeks and distributed to all students. In addition, an all-university student handbook was published, with most of the work done by students.



Other activities introduced this year were two plays and an independent filmmakers series in cooperation with the South Carolina Arts Commission. The film series included nine showings of independently made films and their filmmakers bringing to campus South Carolina filmmakers and a number of nationally famous photographers, including one Academy Award winner and an internationally-known still photographer.

Another worthwhile activity was the non-credit class, with courses being offered in Tennis and in Celestial Navigation. The response was excellent, encouraging future expansion of the program.

Because of steady and appreciable growth of the student body, full attention is being focused on the proposed student center building to provide a more positive environment for students. It would increase the student's identification with the Medical University, making him a constructive member of the academic community while a student and intensely loyal as an alumnus after graduation.

## SESQUICENTENNIAL

The campus was visited by a galaxy of leaders in the medical arts through the year-long celebration of the College of Medicine's Sesquicentennial. Each College department was represented in the Special series of seminars.

Additionally, the institution dedicated an historical marker; emplaced a time capsule; presented community programs; honored distinguished alumni and faculty; exhibited memorabilia of the 150-year period; issued a book of essays and medallions; participated in special editions of medical journals; and attracted numerous scientific conferences to the state.

The culminating events of the celebration were a Symposium on the Future of Medicine and the bestowal of honorary degrees at Commencement.

Receiving honorary degrees of Doctor of Humane Letters were Dr. Webb E. Haymaker, Senior Scientist at the National Aeronautical and Space Administration's Ames Research Center; Dr. Harry Prystowsky, Provost and Dean of the College of Medicine at the Milton S. Hershey Medical Center; and Dr. Mitchell I. Rubin, Consultant in Pediatrics to the Medical University of South Carolina. In addition, Mr. Robert Knisely, of Philadelphia, accepted a hood in behalf of his late father, Dr. Melvin H. Knisely, who had been presented an honorary degree before his death on March 30, 1975. Dr. Knisely, an authority on microcirculation, was former chairman of the Department of Anatomy.



**MEDICAL UNIVERSITY OF SOUTH CAROLINA  
ENROLLMENT  
1974-75**

<b>House Staff</b>	
Interns .....	75
Residents .....	<u>210</u>
TOTAL .....	285
<b>College of Graduate Studies</b>	
Master of Science .....	51
Doctor of Philosophy .....	<u>44</u>
TOTAL .....	95
<b>College of Medicine</b>	
First Year .....	165
Second Year .....	165
Third Year .....	163
Fourth Year .....	<u>152</u>
TOTAL .....	645
<b>College of Dental Medicine</b>	
First Year .....	56
Second Year .....	53
Third Year .....	<u>53</u>
TOTAL .....	162
<b>College of Pharmacy</b>	
Third Year .....	65
Fourth Year .....	57
Fifth Year .....	<u>37</u>
TOTAL .....	159
<b>Doctor of Pharmacy (Pharm. D.)</b>	
Fifth Year .....	8
Sixth Year .....	<u>9</u>
TOTAL .....	17
<b>College of Nursing</b>	
First Year .....	68
Second Year .....	68
Third Year .....	61
Fourth Year .....	<u>55</u>
TOTAL .....	252
<b>College of Allied Health Sciences</b>	
Baccalaureate Programs .....	80
Associate Degree Programs .....	159
Certificate Programs .....	158
Special Students .....	<u>8</u>
TOTAL .....	405
Total Enrollment .....	2,020

## DEGREES CONFERRED 1974-75

### Graduate Studies

Master of Science .....	16
Doctor of Philosophy .....	3
<b>TOTAL .....</b>	<b>19</b>

Medicine .....	148
Dental Medicine .....	79
Doctor of Pharmacy .....	5
<b>TOTAL .....</b>	<b>232</b>

### Baccalaureate

Pharmacy .....	38
Nursing .....	49
Allied Health Sciences .....	43
<b>TOTAL .....</b>	<b>130</b>

### Certificate

Allied Health Sciences .....	219
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## RESEARCH

The major federal support for research comes from the National Institutes of Health and from the Veterans Administration. NIH support includes training grants or fellowships, individual research grants, and the General Research Support Grant. In every case, awards are made only after a long and rigorous extramural review by a peer review mechanism, using recognized scientific experts as members of study sections.

In the case of the Veterans Administration, a comparably rigorous peer review system is used for all research grant applications. Some are reviewed by NIH study sections, and the majority are reviewed by separate Merit Review Boards appointed by the VA Central Office composed of recognized experts in a variety of fields.

An approximate breakdown of support from these sources is as follows:

<i>Federal</i>	<i>Total Active</i>	<i>Funded in Past Year</i>
NIH Training Grants or Fellowships .....	\$ 892,295	\$ 258,603
NIH Individual Grants .....	3,037,972	1,047,846
General Research Support (Col. of Med.) .....	117,259	163,838
		(award for calendar year 1974)
Veterans Administration .....	523,537	195,700
Sub-total .....	\$4,571,063	\$1,665,987
<i>Non-Federal</i>		
S. C. State Allocation for Research .....	—	213,117
<b>Total .....</b>	<b>\$4,571,063</b>	<b>\$1,879,104</b>

This may be compared to the total research funding from these sources for the Medical University in previous years:

<i>Year</i>	<i>Total Active</i>
1973 .....	\$2,056,000
1974 .....	3,761,529
1975 .....	4,784,180

In 1975, a total of 59 investigators submitted applications to the NIH for new or renewal research grants. Also, 11 training programs and fellowships were proposed. Twenty-one investigators (35.5%) won awards to support their research. Three of the 11 training programs or fellowships were funded. This gives an overall approval rate of 34%.

Best information available suggests that overall national approval rates for research grants, fellowships, and training programs are presently 20-25% of applications.

At the VA, nine investigators submitted applications for evaluation by the Merit Review Board, and six were funded (66%). In addition, two small grant requests were submitted and two were funded. This gives an overall approval rate of 73%. This may be compared with a nation-wide approval rate of approximately 50%. Thus, Medical University faculty is competing extremely successfully for scarce federal research funds.

The Research Office received 51 applications from the faculty for small grant support from state funds. A total of 32 applications (62.7%) were funded. Of these, 21 were from clinical departments and 11 from basic science departments. This may be compared to an approval rate of 67% (32/48) in 1974.

A total of 24 faculty members received \$117,259 as support from General Research Support funds. These awards were evenly divided between basic science (6) and clinical departments (6).

Thus, there has been a healthy increase in total research funding of over \$1,000,000 yearly for the past two years.

A great variety of important basic and clinical research is presently underway in the Medical Center. There are large interdisciplinary programs exploring causes and treatment of hypertension, cancer therapy, reasons for susceptibility of patients to cancer, spinal cord injury, and reasons for vascular disease in diabetics. A large cooperative study is exploring methods of treatment for coronary heart disease. There are sophisticated studies underway in amebiasis, transplantation, scleroderma, hormone changes in pregnancy, diabetes, growth, alcohol and drug abuse, burns, infections, prostate cancer, nervous and mental disorders, and releasing hormones which affect the pituitary gland. Basic research continues in a variety of exciting areas, including nutritional deficiencies, immunology, cell membrane physiology, endocrinology, genetics, neuropathology, nerve function and regeneration, and



bacterial or viral function. Product research and development is not ignored, and fundamental work is underway on systems for accurately separating specimens of biological fluids for precise biochemical analyses.

Much of this work has begun to appear at the Medical University of South Carolina within the past five years. It is apparent from the nature of the studies cited above, that such research is generally oriented toward resolving many of the most pressing problems presently faced in modern medicine.

The Institutional Review Board for Human Research has been expanded to comply with Federal guidelines. Five members were added to represent law, clergy, ethics, consumer, and nursing. All research grants containing human research must be approved by a majority of the Board's Protocol Review team before being implemented. A separate team, the Subject Advisory group, has the responsibility for yearly monitoring of ongoing human research projects.

## LIBRARIES

A landmark was reached during the year with the addition of the 100,000th volume, Estienne's *De Dissectione Partium Corporis Humani Libri Tres*, a gift of the College of Dental Medicine in memory of the late Dr. James W. Colbert, Jr. Altogether, 6,702 volumes were added to the collection bringing the total to 102,826 volumes at the end of the year. In addition, 2,343 current periodical titles were received.

Circulation for the period rose by 25 percent to 46,425 items borrowed. The Interlibrary Loan and Extension Divisions provided 6,700 monographs or photocopies of journal articles to users throughout South Carolina and the Southeast, while 1,336 items were borrowed for Medical University users.

The Reference Department completed 1,711 manual literature searches; MEDLINE searches numbered 1,565; and 578 searches using other data bases were run using the MEDLINE computer terminal.

Federal grants in the amount of \$48,000 enabled the Library to continue development of Library/Learning Resource Centers in the Florence Area Health Education Center, and to continue to develop the Learning Resource Center within the Library as well as two satellite learning centers in the College of Dental Medicine and College of Nursing.

Operations received funding from all sources in the amount of \$580,720.

Despite this level of support, inflationary book and journal prices, coupled with the purchasing of foreign publications with devalued dollars, hampered the Library's ability to support educational and research programs.

At the request of the National Library of Medicine a plan for the delivery of health sciences information in South Carolina as part of a regional biomedical communications network will be developed for implementation in 1975.

### WARING HISTORICAL LIBRARY

Among acquisitions of note during the period were a very impressive reprint of Mark Catesby's *Natural History of Carolina, Florida and the Bahama Islands* (1771) and volumes 3, 4, and 5 of the reprint of Leonardo da Vinci's *Codex Atlanticus*. Two purchases were made with the Wyman Fund, a Victorian Shock Box and an early X-Ray tube made in Germany, encased in a wooden box.

Some 75 books and pamphlets were received as gifts during this fiscal year. There were such items of historical interest as a croup kettle, amputation saw, old Diatherm machine, medicine chest with accessories, silver cup, wooden mortar and pestle, admission cards to professors' lectures during the 19th century, diplomas, and a license to practice medicine issued by the Columbia Medical Board in December of 1824. A detailed listing of Waring Library acquisitions and gifts is published quarterly in *Library Notes*.

### MEDICAL UNIVERSITY HOSPITAL

Many improvements in hospital facilities were realized during the year. Not only were a Pediatric Intensive Care Unit, Intensive Care Labor Unit, and General Clinical Research Center opened, but Radiological Services were greatly improved by the purchase of more than \$1,000,000 in new and replacement equipment, including an EMI Scanner. The first phase of the major expansion of Radiation Therapy was also begun.

The overall appearance of the hospital was improved significantly by the replacement of all ceilings and lights in hospital corridors. This, coupled with a stripping and rewaxing of all floors by the Housekeeping Department, has given the hospital a "new look" much appreciated by staff, patients and visitors.

All patient rooms have now been equipped with new hi-lo electric beds and complementing overbed tables, bedside stands and lounge chairs. All patient rooms have also been furnished with new Executive Nurse Call equipment to improve communications between staff and patients.

To accommodate the large volume of laboratory test requests now being generated on a daily basis, the hospital has installed a "Med-Lab" computer. This will aid in the scheduling of laboratory work, the reporting of test results and the generation of patient charges.



Other improvements: the development of a critical care laboratory on the fourth floor; expansion of emergency power supply; upgrading of the fire alarm system; installation of a pneumatic trash system; construction of a prefabricated storage building; expansion and relocation of the dispensing pharmacy; and relocation of the House Staff call rooms out of the hospital to provide for needed expansion.

Executive leadership was strengthened by a number of key appointments. In February, the Board of Trustees of the Medical University established and filled the position of full-time Medical Director, who bears the responsibility of assuring that professional excellence is maintained in the provision of patient care, and of education.

Other significant appointments include those of Director of Clinical Nursing, Director of Social Services, Director of Medical Records, and an Operating Room Supervisor.

The hospital participated with other hospitals and public agencies in two disaster exercises designed to evaluate the county's ability to respond to mass casualty conditions. Also, Medical and Administrative Disaster Coordinators were named to work on the Hospital Disaster Plan and provide coordination between the Medical University Hospital and other agencies.

Visitor regulations were revised to provide needed control over the number of people having access to patient floors, proving beneficial to both staff and patient. Also, Food Services received considerable attention. Cafeteria charges were adjusted to cover actual operational costs.

As the year drew to a close all hospital departments were in the midst of preparation for the upcoming survey by the Joint Commission on Accreditation of Hospitals.

Statistically, the Hospital provided 135,377 adult patient care days and 10,166 newborn care days, the total operational cost amounting to \$31,210,769 of which \$10,162,705 was State Appropriated. Generated cash revenue has increased from \$6,550,607 in 1969-70 to \$21,763,098 in 1974-75.

## OUTPATIENT CLINICS

Two hypertensive study clinics were started this year. One is under the Department of Pharmacology and is held in the Basic Sciences Building, and the other is under the Department of Medicine. The majority of the patients are referred from the Medicine and Receiving Clinics. There were 1,569 visits in these clinics. The clinic under the Department of Medicine has maintained a complete, computerized analysis of its operations.

The obstetrical nursing staff is conducting classes for the patients, showing films and having open discussions. Patients are taken once a month on a tour of the labor and delivery rooms in the hospital. Four of



the specialty Ob-Gyn clinics have been separated from the general clinic and are held in the Ob-Gyn area of the Family Practice Building.

The Department of Biometry has conducted a study of several of the clinics to recommend improvements in handling the large flow of patients and scheduling of physician and student time.

The Receiving Clinic, a walk-in clinic, is now under the direction of a paid physician assisted by an intern. A nurse, clerk and nursing assistant are also assigned to this area. There were 7,520 visits over the year.

The outlying clinics operated by the Charleston County Health Department, Health, Education and Welfare, and the Office of Economic Opportunity continue to refer a large number of patients to the various clinics.

The Diabetic Clinic has expanded its services, with personnel from the VA hospital, the Endocrine Division of the Medical University, and the Charleston County Health Department working with the clinic staff.

There are four R.N.'s seeing a selected group of patients and following them monthly or whenever it is necessary for them to return. There are two dietitians to counsel the patients and a public health nurse holds classes each week. A podiatrist also provides services.

The total of patient visits in all Medical University Outpatient Clinics came to 107,945, an average of 434 visits per day.

The X-ray Department performed 19,060 examinations utilizing 45,512 films.

### **STUDENT-EMPLOYEE HEALTH SERVICES**

In January, 1975, Health Services moved from the University Hospital to a newly renovated building about three blocks away. The building provides approximately twice the floor space of the previously occupied area in the hospital, and is considered a significant improvement in the Health Service facilities.

For emergencies on campus, the Charleston County Emergency Medical Service has contracted to provide necessary transportation. Two rooms in the Private Diagnostic Clinic of the University Hospital have been assigned to Health Services for after-hours medical care.

The general health of the students and employees was good during the reporting period, except for a moderate increase in the number of upper respiratory and influenza cases. There were 15,280 visits to Health Services, a decrease of 1,312 from last year.

### **PASTORAL SERVICES**

Two Workshops in Biomedical Ethics were held during the year for health professionals and clergymen of the Charleston area. In November, 1974, Dr. Harmon L. Smith, of Duke University spoke on

the topic of "Doing Responsibly What We Can Do Technically", and in May, 1975, Dr. Kenneth L. Vaux of the Texas Medical Center in Houston spoke on the subject of "Ethical Challenges of the New Medicine." Attendance at each of these one-day workshops approximated 275.

Another activity involving the community is the monthly Charleston Forum in Medicine and Theology which features outstanding men of medicine as speakers on subjects ranging from medical ethics to general patient care.

Four intern seminarians were enrolled in the College of Medicine throughout the summer of 1974. In addition to class work, site visits were made to eight local health clinics. The students spent at least nine hours a day in studies and patient visitations over an 11-week period. The director has the program under review in anticipation of major modifications in coming years.

The director has continued to participate monthly in nursing in-service training sessions and also meets with newly assigned nurse supervisors to explain the many services and activities of the department.

## AUDIOVISUAL RESOURCES

Dramatic growth in campus activities was reflected in requests for audiovisual support and consulting services. Additionally, increased integration of media into the curriculum called for the design and production of many new mediated instructional materials.

### Projects Completed

Art .....	683	(includes 10 scientific exhibits)
Cinematography .....	149	(includes 9 color/sound films)
Classroom Support .....	2,112	(plus 3,231 equipment loans)
Instructional Development ....	25	(13 new and 12 revised programs)
Photography .....	3,586	(primarily still photography)
Television .....	<u>2,474</u>	(includes 246 productions as well as 238 playbacks, 1,653 dubs, and 164 maintenance and repair projects)

Total: FY 74-75	9,029
FY 73-74	6,484
FY 72-73	4,802
FY 71-72	3,944
FY 70-71	2,809

## CONTINUING EDUCATION

In the latter half of 1974, a protocol was worked out for the awarding of Continuing Education Units (CEU's) for attendance in most approved courses. Under the system, CEU's are determined beforehand, in conjunction with institutional-level advisory academic groups; where



indicated, various department heads and Deans are also available for advisory support. A permanent record of all units awarded is maintained in the Medical University Registrar's office.

Special activities which meet the following criteria will also be accounted for in terms of institutional CEU's: (1) the activity is a planned experience of an educational nature; (2) the activity is sponsored by academic or administrative unit(s) of the University qualified to determine the quality of the program content and resource personnel; and (3) records of attendance are required for institutional reporting.

In recent months, the number of participating hospitals in the Division's S. C. Health Communications Network has risen to 24. As a service to Network members, the Division works with hospitals in developing orientation programs in videocassette format for new employees. This represents a great savings in time for instructors, makes the program immediately available, and permits persons to view areas such as the operating room and ICU's, where they would otherwise be excluded.

An assortment of audiovisual hardware and a library of training materials, such as the ROCOM sets and NCME videocassettes, are maintained and loaned to interested instructors free of charge. The cassette library includes 700 audiocassettes and 400 videocassettes. These are in constant demand and are in the process of being updated. Staff is also available for consultation and advice on audiovisual equipment and materials.

During the year, needs for editing equipment and remote taping were met and staff was upgraded to improve educational design, curriculum development, production and technical support.

#### *Programs in Progress:*

Medical Terminology Course: sixteen 30-minute programs taught at Trident Technical College (Palmer Campus)

Course for Food Service Workers: being produced by the Home Economics Department of Winthrop College, approximately 30 programs to cover entire hospital food service operations

Business Office Training Course: 12 programs

Orientation Program for New Hospital Employees: two pilot programs under way with Orangeburg Regional Hospital and Tuomey Hospital, Sumter.

#### *Recruitment Programs*

William S. Hall Psychiatric Institute Seminar

CPC's: monthly programs with the Pathology Department



# DIVISION OF CONTINUING EDUCATION COURSES

<i>Date</i>	<i>Title</i>	<i>Attendance</i>
July 12-13	Proprioceptive Neuromuscular Facilitation .....	19
July 29-Aug. 2	Second Annual Beach Summer Workshop .....	101
Aug. 14-15	Nuclear Medicine Seminar .....	31
Sept. 5-6	The Dyslexic Child .....	550
Sept. 16-21	Family Practice Review Course .....	55
Sept. 24	Acid-Base Problems in Medical Practice: A Refresher Course ..	91
Oct. 2-4	First National Medex Conference for Primary Care Physician's Assistants .....	138
Oct. 4-5	Trauma and Emergency Medical Services .....	154
Oct. 23-27	An Introduction to Neurodevelopmental Treatment .....	19
Oct. 25-27	Laboratory Management .....	19
Nov. 14	Current Concepts in Cancer Nursing — Basic Cancer Concepts .....	83
Nov. 16	Sickle Cell Anemia .....	65
Nov. 21-22	Otolaryngology Sesquicentennial Seminar .....	19
Dec. 11	Nuclear Medicine Quality Control Seminar .....	35
Dec. 12	Current Concepts in Cancer Nursing — Psychological Aspects .....	91
Dec. 12-13	Orthopedic Sesquicentennial Lecture .....	71
Dec. 16-20	Team Leadership in Community Health Nursing .....	36
Jan. 23	Current Concepts in Cancer Nursing — Pediatric Oncology .....	93
Jan. 23-24	Acquired Coagulation Defects — Diagnosis and Treatment... ..	16
Jan. 24-25	Second Annual Ophthalmology Refresher Course .....	24
Feb. 9-15	Sixth Annual Family Practice Refresher Course .....	53
Feb. 10-14	Neurophysiological Principles of Sensory Stimulation .....	24
Feb. 27	Current Concepts in Cancer Nursing — Cancer of the Breast ..	121
Mar. 1	Conference on Community Action for the Prevention of and Rehabilitation of Delinquent Behavior Problems in Young Women .....	49
Mar. 1-3	Proprioceptive Neuromuscular Facilitation .....	20
Mar. 4	Sesquicentennial Lectures — Department of Medicine .....	171
Mar. 10-11, 17-18	Team Leadership in Community Health Nursing .....	38
Mar. 14-15	Ides of March .....	58
Mar. 16-18	Obstetrical and Gynecological Spring Symposium .....	68
Mar. 21-23	Fifth Annual Neuropathology Review Course .....	23
Mar. 22	Cytology Seminar No. 11 .....	93
Mar. 27	Current Concepts in Cancer Nursing — Gynecological and Genito-Urinary Tract Cancer .....	106
Apr. 4-5	Symposium: Diabetes, Lipids and Joint Disease .....	77
Apr. 4-5	Current Concepts in Diabetes Mellitus: An Allied Health Approach .....	49
Apr. 6-9	The Felix Rutledge Society — Sixth Annual Meeting .....	67
Apr. 10-12	9th Annual Ophthalmology Residents Conference .....	34
Apr. 24	Current Concepts in Cancer Nursing — Cancer of the Colon .....	115
May 2-3	Department of Pediatrics Sesquicentennial Lectures .....	25
May 7-9	It's Your Community Health .....	21
May 8-9	Help for the Head Nurse .....	27
May 16-17	Thoracic and Cardiovascular Surgical Sesquicentennial Symposium .....	82
May 29	Current Concepts in Cancer Nursing — Cancer of the Lung and Esophagus .....	103
May 29-31	Clinical and Consultant Dietetics Workshop .....	90

### DIVISION OF CONTINUING EDUCATION COURSES (continued)

<i>Date</i>	<i>Title</i>	<i>Attendance</i>
June 12-13	Help for the Head Nurse .....	25
June 12-13	South Carolina State Nutrition Committee Meeting .....	303
June 26	Current Concepts in Cancer Nursing — Cancer of the Head and Neck Regions .....	118
June 26-27	Workshop: Nursing Care Planning and Nursing Audit/ Quality Assurance .....	35
	Sub-Total .....	3656
<b>OFF CAMPUS PROGRAMS</b>		
Oct. 16-17	Dietetic Assoc. Fall Workshop — Columbia, S. C. ....	100
Sept. - Apr.	Kershaw County Medical Society Lecture Series .....	250
Dec. - June	State Park Health Center Visiting Professor Series .....	105
May 7-14	Continuing Education Cruise Seminar .....	26
<b>SPECIAL ON-CAMPUS PROGRAMS</b>		
	Six Perinatal Courses for Physicians .....	33
	Four Intensive Clinical Courses in Neonatal Nursing Care ...	30
May 16-18	International Tele-Health Planning Group .....	41
	Sub-Total .....	585
	<b>TOTAL</b> .....	<b>4241</b>

### SOUTH CAROLINA REGIONAL MEDICAL PROGRAM

The South Carolina Regional Medical Program was awarded \$745,158 in federal Health, Education and Welfare funds for staff activities and the continuing until June 30, 1976 of 30 projects which are eligible for transition into future Health Systems Agencies projects.

Also, 23 of the currently funded non-transitional type projects, which were originally slated to end June 30, 1975, will continue until December 31, 1975 by using certain unexpended funds from fiscal year 1974.

Recommendations for new money awards were based on how these projects relate to transitional activities and priorities set by the new National Health Planning and Resources Development Act of 1974, and on the likelihood that continuation may lead to other sources of support.

This new law (HF 93-641) which was signed by President Ford in January, 1975, provides for the establishment of a network of Health Systems Agencies which in time will combine the major functions of RMP, Comprehensive Health Planning and Hill-Burton. Four HSA's are to be established in South Carolina, one in each of the four geographically defined Health Services Areas into which the State was divided by action of Governor James Edwards and recently approved by the Secretary of HEW.

The 30 continuing projects being funded are:

Project 60-B: Screening Program for Hypertension in Children —



Medical University of South Carolina, Charleston, Dr. Arno Hohn, \$9,746.

Project 67: Perinatal Quality Assurance — MUSC, Dr. Abner H. Levkoff, \$22,517.

Project 68: Rural Mobile Health — Williamsburg County Memorial Hospital, Kingstree, Dr. James Connolly, \$35,166.

Project 70: Pee Dee Hospital Based Manpower Development — Marion County Memorial Hospital, David G. Askins, Sr., \$7,344.

Project 71: Advanced Training for Emergency Medical Technicians — S. C. Hospital Association, Carol F. Latimer, \$6,881.

Project 72: Criteria to Improve Hospital/Ambulatory Services — The Tuomey Hospital, Sumter, R. M. Abercrombie, Jr., \$8,040.

Project 73: Improved Communications in Quality Assurance — MUSC, Dr. Vince Moseley, \$13,163.

Project 76: Community Hypertension Control Program — S. C. Heart Association, Helen Stuart, \$14,064.

Project 79: Hospital Medical Care Evaluation System — S. C. Hospital Association, George Berch, \$15,425.

Project 80: Intensive Course in Neonatal Nursing — MUSC, Dean Marcia Curtis, \$21,508.

Project 82: Hypertension Study of Black Males in Charleston County — MUSC, Dr. S. H. Sandifer, \$13,289.

Project 83: Demonstration Hypertension Control Program — State Department of Health and Environmental Control, David McCallum, \$20,051.

Project 84: Queueing Methods to Improve Ambulatory Care — Department of Biometry, MUSC, Dr. Clinton Miller, \$15,411.

Project 85: Oncology Radiation Dosimetry Program — MUSC, Dr. Keene M. Wallace, \$3,085.

Project 95: Regionalization of Specialized Nursing Home Services — S. C. Heart Association, Dolores J. Wilke, R.N., \$10,448.

Project 99: Pee Dee Regional Hospital Program — Pee Dee Regional Health Services District Board, Hartsville, Edgar H. Lawton, Jr., \$5,244.

Project 100: Multiagency Health Services in Lexington County — Lexington County Hospital, West Columbia, George Rentz, \$7,655.

Project 104: Regionalization of Health Manpower Program — Clarendon Memorial Hospital, Manning, Paula Rhodes, \$6,786.

Project 105: Santee-Wateree Health Manpower Program — Tuomey Hospital, Sumter, R. M. Abercrombie, Jr., \$11,769.

Project 106: Pee Dee Manpower Development Program — McLeod Memorial Hospital, Florence, Don C. Pearson, Jr., \$5,244.

Project 108: Statewide Patient Information Program — Division of Continuing Education, MUSC, Dr. Vince Moseley, \$9,253.



Project 114: Extension of Gynecological Oncology Programs — Department of Ob/Gyn, MUSC, Dr. Paul Underwood, \$14,236.

Project 115: Beaufort-Jasper Hypertension Services — Beaufort-Jasper Comprehensive Health Services, Thomas C. Barnwell, Jr., \$8,041.

Project 118: Regionalization of Life Support Technology — Department of Thoracic Surgery, MUSC, Drs. Arnold Lande and William Lee, Jr., \$21,594.

Project 120: Catawba Hypertension-Diabetes Program — Lancaster County Health Department, Dr. Helen E. Llewelly, \$7,411.

Project 124: Quality Access Program in Private M.D. Offices — S. C. Medical Association, Charles Johnson, \$5,434.

Project 125: Trident Mobile Health Clinic — Berkeley/Dorchester Counties Economic Development Corporation, Moncks Corner, and the Committee on Better Racial Assurance Health Project, Charleston, Vivian B. Pinckney, R.N., and Alberta Cook, \$17,774.

Project 126: Ambulatory Surgical Services — Richland Memorial Hospital, Columbia, Jean Martz, \$4,165.

Project 127: Ambulatory Program for High Risk Indigents — Richland County Medical Indigent Service, Columbia, Ben J. McCollum, \$8,211.

Project 129: Beaufort-Jasper Comprehensive Health Education — Beaufort-Jasper Comprehensive Health Service, Ridgeland, T. C. Barnwell, Jr., \$7,735.

Since its inception in 1966, SCRMP's funding has totalled more than \$13 million, which in turn has supported in excess of 185 operational projects, developmental studies, contracts and scores of workshops, seminars and conferences, involving many of the most urgent health care problems in the State.

*Emergency Care and Services:* The recently announced Comprehensive Emergency Medical Plan for S. C. had its beginning in 1969 when SCRMP provided \$11,500 for the initial planning activity. Subsequently, SCRMP helped coordinate funding requests by interested agencies and institutions, supported conferences and seminars, and is currently funding advanced training for EMS technicians. Total SCRMP funding for EMS activities stands at \$109,226.

*End-Stage Chronic Renal Disease:* SCRMP grants have helped the Medical University develop a kidney transplant program, provided facilities for the dialysis of the acute patient, and supplied equipment, training and professional support for home dialysis of the renal patient. Twenty-eight renal transplants have been performed and more than 5,000 dialysis procedures are accomplished annually.

*Improved Health Communications:* A closed circuit television and telephone talkback Health Communications Network has been estab-

lished enabling conferences and consultations directed toward patient care and a broad health manpower training program between twenty-four hospitals in the State to be held.

*Heart Disease and Stroke:* Heart and stroke projects have produced more than 900 instructors in cardiovascular care who, in turn, have instructed more than 300 physicians, 1,800 nurses and 700 emergency rescue personnel.

*Improved Diagnosis:* More than 500 physicians, nurses, laboratory technicians and other allied health personnel have received training in newer laboratory techniques as the result of a statewide laboratory personnel refresher training project.

*Early Detection of Disease in Children:* The Children's Heart and Respiratory Disease Programs have screened thousands of school children, providing the data to undertake a valuable analysis of disease patterns and primary health trends and early detection of hypertension.

*Improved Management of Diabetes:* A massive education program for the State's estimated 100,000 diabetics has been launched by the establishment of a model diabetic education center in Charleston, as well as the model patient teaching program and a first phase statewide physician education effort.

*Intensive Care Nursing for High Risk Infants:* Initial development of an intensive care nursery at MUSC, to be used as a referral center and as a model for instruction and training of other institutions to handle the some 2,000 acutely distressed infants born each year in South Carolina, has been realized.

*Shared Services:* Employees of hospitals in the Upper Savannah, Pee Dee and Santee-Wateree Districts are participating in shared manpower training or social service programs designed to reduce hospital costs and to streamline services.

*Rural Health Care Extension:* To help meet urgent rural health needs, SCRMP is currently supporting seven projects delivering rural health care or conducting screening activities in Williamsburg, Berkeley, Dorchester, Charleston, Beaufort, Jasper, Colleton and Hampton counties.

*Coronary Care:* In 1967, with only three hospitals in the State equipped with intensive coronary care units, SCRMP set to work to train physicians and nurses to handle the complex equipment required in these units. SCRMP provided other types of assistance such as planning support, and today there are 34 hospitals in South Carolina equipped with the life-saving CCU's. Also, SCRMP has assisted in some areas with coronary monitoring linkage between major and outlying hospitals.

*Patient Services:* During the recently completed funding period, SCRMP produced the following health benefits: Provided individual training for 1,254 persons with subsequent services rendered by these



personnel to 57,730 people; furnished continuing education for new skills to 14,780 persons with resultant services to 268,086; and improved accessibility of health services for 130,640 people. Some 102,640 persons were served by emergency services and training and 229,159 persons were served in respect to primary care and improved regionalization of secondary and tertiary services.

## FISCAL AFFAIRS

Several improvements were implemented by the Accounting Department, including the mechanization of journal entries and the initiation of a twice-weekly schedule for the processing of accounts payable checks. Two new management information reports were successfully introduced and the revision of several existing reports was accomplished.

The Bursar's Office was relocated during the year, as recommended by auditors. The new location provides increased security for the handling of cash and additional space for personnel.

In September, 1974, the Department of Business Operations assumed responsibility for property control as well as for maintaining the property/transit storage warehouse. A revised system for property control was initiated whereby each piece of capital equipment was assigned and marked with a unique identification number. Computer programs were designed which will provide a detailed listing of all capital equipment, its location and other pertinent data. The implementation of the new property management system ensures compliance with State Auditors' recommendations.

The service growth of the Microfilming Section for the year was 7.3 percent, with a total of 2,839,449 documents filmed. The Section recovered approximately 74 percent of operational expenses, and full cost recovery is anticipated for the 1975-76 fiscal year.

Requests for rooms for the 1975 school year far exceed the capacity of the dormitory, Alumni Memorial House, emphasizing the need for increased housing facilities for students of the Medical University.

Sales for the University Bookstore for 1974-75 amounted to \$208,877.54, a 13.5 percent increase over 1973-74.

An information program was initiated to assist the departments in becoming familiar with purchasing policies and procedures. A data processing clerk was added to the Purchasing staff to ensure the accuracy of paperwork flowing through the department.

General stores and Hospital Receiving operations were relocated in new quarters in the Hospital. The new facilities provide approximately 25 percent more space for these functions.



## PHYSICAL PLANT

Several major construction projects were underway during the reporting period. The Clinical Sciences Building, in spite of delays, progressed to about 70 percent completion. A Federal grant was obtained to help finance an additional two floors for this facility and one additional floor for the Library-Administration Building. Construction of these floors should begin in the 1975-76 fiscal year.

The Albert Florens Storm Memorial Eye Institute was approximately 43 percent complete in June, 1975, and should be substantially complete by December, 1975. The estimated cost of this facility is \$3,100,000. The Allied Health Sciences Building was begun in March, 1975, and the estimated completion date is July, 1976. Work was begun on the multi-phase Hospital Renovation Project (\$1,100,000). The nuclear medicine equipment, laundry wash wheel, emergency power, pharmacy and storage warehouse portions of the project were completed, and two phases, the trash and linen system and the radiation therapy area, were under construction. The contract for construction of the Business Services Building was awarded and construction is scheduled to begin in September, 1975.

As of June 30, 1975, several projects were in the planning stage: the Student Center; Quadrangle Renovation Project; the Radiology and Laboratory Building; the High-Tension Electric Expansion Project; and the Institute for Human Development.

Alterations and repairs to the University facilities were in the amount of \$928,000 for the year, which was less than for the previous accounting period, primarily because Physical Plant operating funds were diverted to cover an unexpected 40 percent increase in utility costs, and other departments did not have the funds needed to finance new projects.

## COMPUTER CENTER

The Student Information System has been designed and implemented successfully. It is flexible enough to handle the activities of a two-year institution, such as Trident Technical College, as well as graduate work at the Medical University. It also has been designed to implement requests for reports and data from the Commission on Higher Education.

The Position Budgeting System has been stabilized and potentially will be able to interface with the Payroll/Personnel System.

In the Operations Room there has been a marked improvement in turn-around time. Over twenty-three releases have been implemented, indicating the systems are operating under the latest improvements from the vendors.

The year was also marked by much work on the preliminary Hospital Information System.

## PUBLIC RELATIONS AND DEVELOPMENT

The post of Project Developer was established and filled to strengthen the university planning process. The Project Developer assists the Vice President for Development and Public Relations in matters relating to space planning, new construction and long range planning. Proposed construction or modification which exceeds \$5,000 in value is processed through this office for presentation to the Medical University Planning Committee and the Administration for disposition.

In the fund raising area, increased emphasis was placed on estate planning. Anticipated revenues from new wills, bequests and gift annuities approximated \$500,000. Scholarship support was another bright area, with one foundation providing \$20,000 a year to attract health practitioners to its two-county area. A director of the Medical University Fund was added to the staff, enabling the Director of Development to concentrate in areas of corporate, foundation and estate giving.

Among the many Public Relations cooperative ventures with state and community organizations was Health Careers Day sponsored by the Woman's Auxiliary to the South Carolina Medical Association. Several thousand students from throughout the state attended, many of them taken on tours of the Medical University.

The Public Relations director also was charged with arrangements for the accreditation visit by the Southern Association of Colleges and Schools.

Twenty-two alumni and faculty members received special honors at a banquet commemorating the Medical University's Sesquicentennial during Founder's Day. Receiving the Sesquicentennial Distinguished Alumnus Award were: Dr. George Luther Bell, '32, Ruidoso, New Mexico; Dr. William Childs Cantey, '36, Columbia; Dr. Leon Isadore Goldberg, '52, Chicago; Dr. William Stone Hall, '37, Columbia; Dr. Howard Lamar Holley, '41, Birmingham, Alabama; Dr. William Hagerman Knisely, '54, Austin, Texas; Dr. Thomas Martin Peery, '32, Alexandria, Virginia; and Dr. Claude-Starr Wright, '42, Augusta, Georgia.

Sesquicentennial Distinguished Faculty Awards were presented to: Dr. John Calvin Aull, Jr.; Dr. Francis Gendron Cain, '14; Dr. Daniel Wordsworth Ellis, '38; Dr. Pierre Gautier Jenkins, '25; Dr. Kenneth Merrill Lynch; Dr. William Mellen McCord; Dr. Vince Moseley; Dr. Edward Frost Parker; Dr. Harold Rawling Pratt-Thomas, '38; Dr. William Hutson Prioleau; Dr. James Jervey Ravenel, '15; Dr. Paul Walter Sanders, Jr., '26; Dr. John Arthur Siegling, '32; and Dr. Robert Wilson, '30.



The second overseas Continuing Education trip for medical alumni was conducted in November, 1974, with 125 persons taking advantage of the scientific sessions in Acapulco, Mexico. The success of the program was such that a third trip is being planned for London this coming fall.

Dr. Major F. Fowler, '23, of Atlanta, Georgia, was presented the Distinguished Alumnus Award by the Medical Alumni Association at its annual luncheon in Myrtle Beach. He was cited for organizing the Association's first Alumni Club in November, 1974, in Atlanta.

Winner of the 1975 Distinguished Nursing Alumna Award was Betty Bass Garrison, '57.

## **MEDICAL UNIVERSITY PUBLICATIONS**

Medical University Self-Study  
Central Supply Catalog  
Cost Allocation Study  
Employee Development Training Programs  
Pediatric Study Guides  
Psychiatry Learning System Workbooks  
Spinal Cord Injury Newsletter  
Physical Diagnosis Course Manual  
Physicians' Placement Service  
House Staff Manual  
Biopsy Books  
Medical University Wives' Cookbook  
Regionalization of Neonatal Intensive Care  
Profile  
Medical University Review  
Alumni Bulletin  
Dental Medicine Study Guides  
Cancer Risk Exhibit Guides  
Annual VA Hospital Research Report  
Student Calendars  
Graduation and Appreciation Certificates  
American Trauma Society Conference  
Departmental Recruitment Brochures  
Faculty Handbook  
All University News Publications  
Surgery Annual Report



